

# SERVICE MANUAL

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RADIO RECEIVER

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This Service Manual is the "Revision Publishing" and replaces "Simple Manual"  
U<B>(S/M Code No.09-003-339-0T1)  
EZ<B>,LH<B,W>(S/M Code No.09-003-339-0T2).

## SPECIFICATION

<b>Power source</b>	AC 120 V, 60 Hz <U Model> AC 230 V, 50 Hz <EZ Model> AC 110 – 120 V/220 – 240 V, 50/60 Hz, selectable <LH Model>
<b>Output</b>	280 mW (EIAJ)
<b>Power consumption</b>	4 W
<b>Speaker</b>	57 mm, 8 ohms
<b>Frequency range</b>	FM: 87.5 – 108 MHz AM: 530 – 1,710 kHz <U Model> AM: 530 – 1,602 kHz <EZ Model> AM: 530 – 1,605 kHz <LH Model>
<b>Antennas</b>	FM wire antenna Ferrite bar antenna for AM
<b>Maximum outside dimensions (W × H × D)</b>	135 × 120 × 125 mm (5 3/8 × 4 3/4 × 5 in.)
<b>Weight</b>	Approx. 655 g (1.4 lbs.)

- Design and specifications are subject to change without notice.

## ACCESSORIES LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。  
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

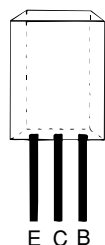
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-RUA-901-010	IB,U(3L)C<U<B>>	
1	8A-RUA-904-010	IB,LH(3L)C<LH<B>,LH<W>>	
1	8A-RUA-905-010	IB,EZ(EGF)C<EZ<B>>	
1	8A-RUA-906-010	IB,EZ(SID)C<EZ<B>>	
1	8A-RUA-907-010	IB,EZ(PHNCZ)C<EZ<B>>	

## ELECTRICAL MAIN PARTS LIST

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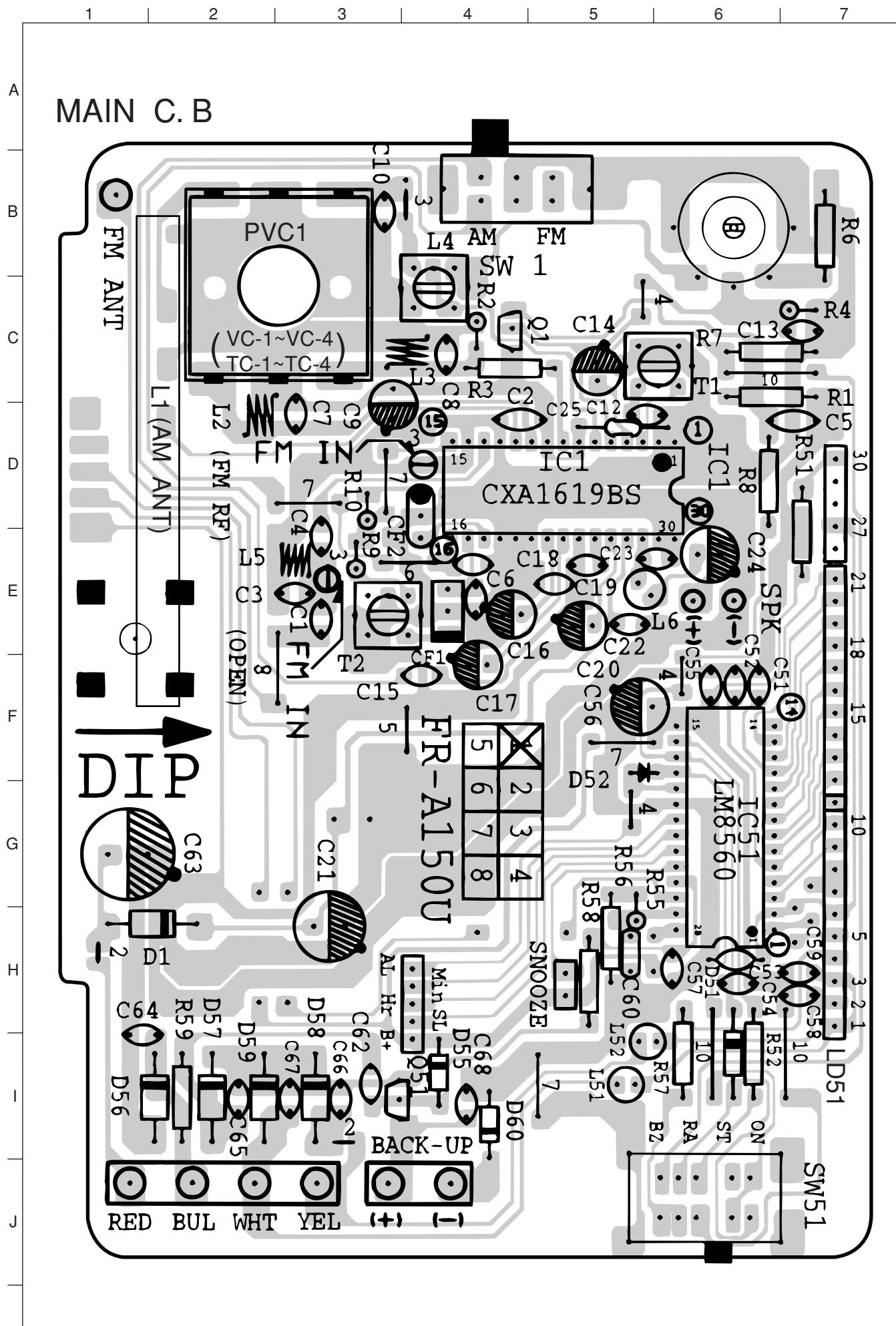
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				L4	8A-RUA-623-010		COIL,AM OSC A106 RED
	8A-RUA-605-010	IC,CXA1619BS		L5	8A-RUA-625-010		COIL,FM ANT4.5*4.5T
	87-A21-201-010	IC,LM8560N		L6	87-003-050-010		CHOKE COIL,47UH
				L51	87-003-050-010		CHOKE COIL,47UH
				L52	87-003-050-010		CHOKE COIL,47UH
TRANSISTOR				LD51	8A-RUA-618-010		LED,ASSY,CLOCK GREEN<U,EZ>
	SZ-KTH-623-080	TR,KTA1267-Y		LD51	8A-RUA-619-010		LED,ASSY,CLOCK RED<LH>
				PVC1	8A-RUA-616-010		TUN-CAP,20P-126P-126P MP201<EZ,LH>
				PVC1	8A-RUA-615-010		TUN-CAP,20P-160P-82P ST505<U>
DIODE				SW1	8A-RUA-612-010		SW,SLIDE 2C2P BAND
	87-A40-398-010	DIODE,1N4001		SW51	8A-RUA-611-010		SW,SLIDE 2C4P FUNCTION
	87-070-345-080	DIODE,1N4148		SW53	8A-RUA-613-010		SW,SLIDE 1C2P F-SELECT<LH>
				T1	8A-RUA-621-010		IFT,FM FD BLK
				T2	8A-RUA-622-010		IFT,AM AA0 YEL
				VR1	8A-RUA-617-010		VR,RTRY 50KB F-12NPO
MAIN C.B				FUNCTION C.B			
C1	87-018-113-010	CAP CERA 33P		SW55	8A-RUA-642-010		PLATE,TACT SW
C3	87-018-115-010	CAP,TC-U 47P-50 SL		SW56	8A-RUA-642-010		PLATE,TACT SW
C4	87-018-111-010	CAP TC SS 27P		SW57	8A-RUA-642-010		PLATE,TACT SW
C7	87-018-163-010	CAP,TC U 18P-50 J RH UP050		SW58	8A-RUA-642-010		PLATE,TACT SW
C8	87-018-177-010	CAP,TC U 24P-50 J UJ UP050		SW59	8A-RUA-642-010		PLATE,TACT SW
C9	87-010-263-010	CAP, ELECT 100-10V		SNOOZE C.B			
C10	87-018-167-010	CAP,TC-U 5P<U>		SW54	8A-RUA-642-010		PLATE,TACT SW
C12	87-018-150-010	CAP, CERA-SOL 18P CH					
C14	87-010-400-010	CAP, ELECT 0.47-50SME					
C16	87-010-401-010	CAP, ELECT 1-50V					
C17	87-010-404-010	CONDENSER 4.7-16					
C20	87-010-263-010	CAP, ELECT 100-10V					
C21	87-010-236-010	ELECTROLYTIC, 1000-10					
C24	87-010-248-010	CAP, ELECT 220-10V					
C63	87-010-237-010	CAP, ELECT 1000-16V					
CF1	87-A91-162-010	FLTR,PFS450A7					
CF2	87-A90-991-010	FLTR,SFE10.7 MS239-A					
L1	8A-RUA-624-010	ANT,BER W/CORE					
L2	8A-RUA-626-010	COIL,FM RF4.5*3.5T					
L3	8A-RUA-627-010	COIL,FM OSC4.7*2.5T					

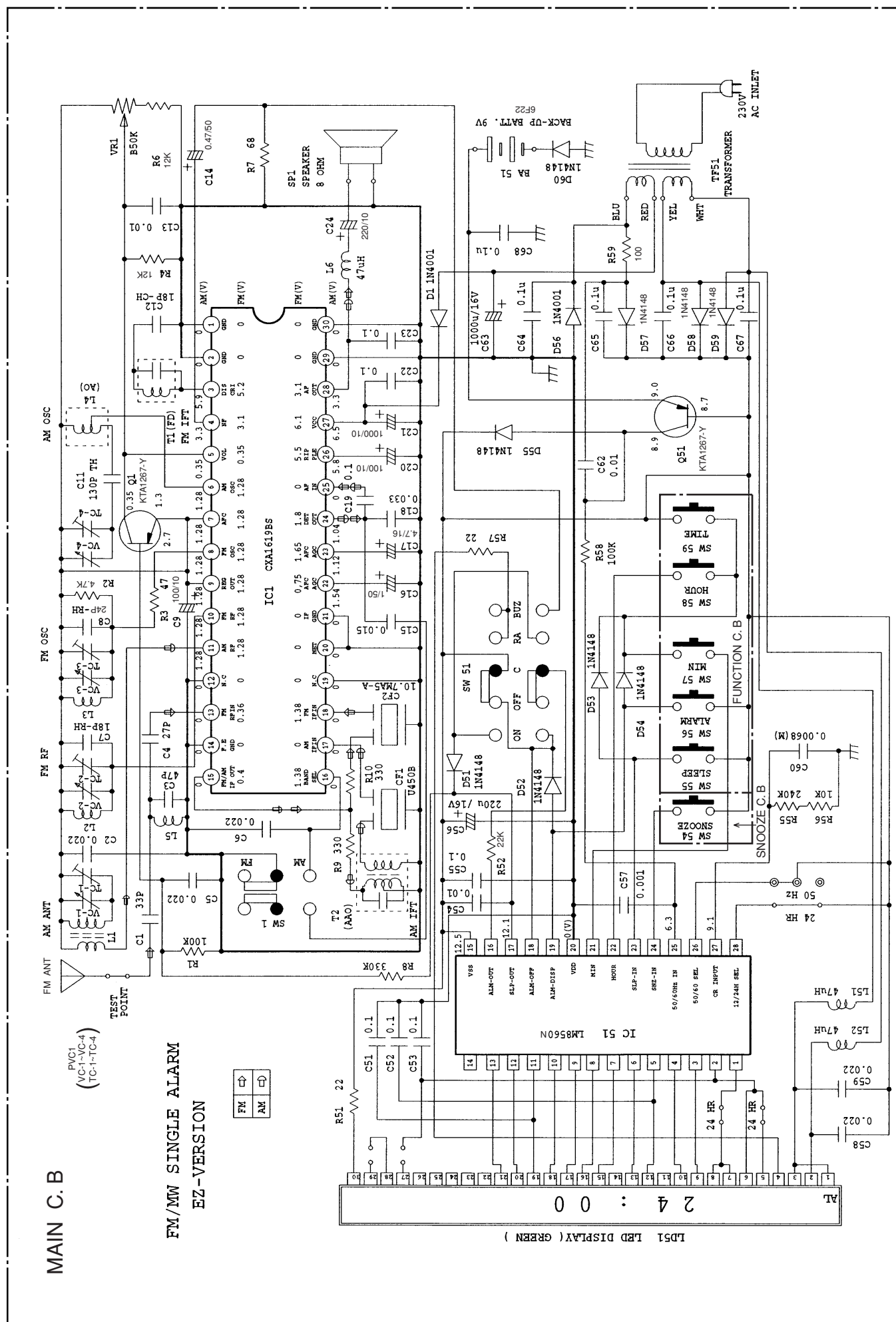
## TRANSISTOR ILLUSTRATION



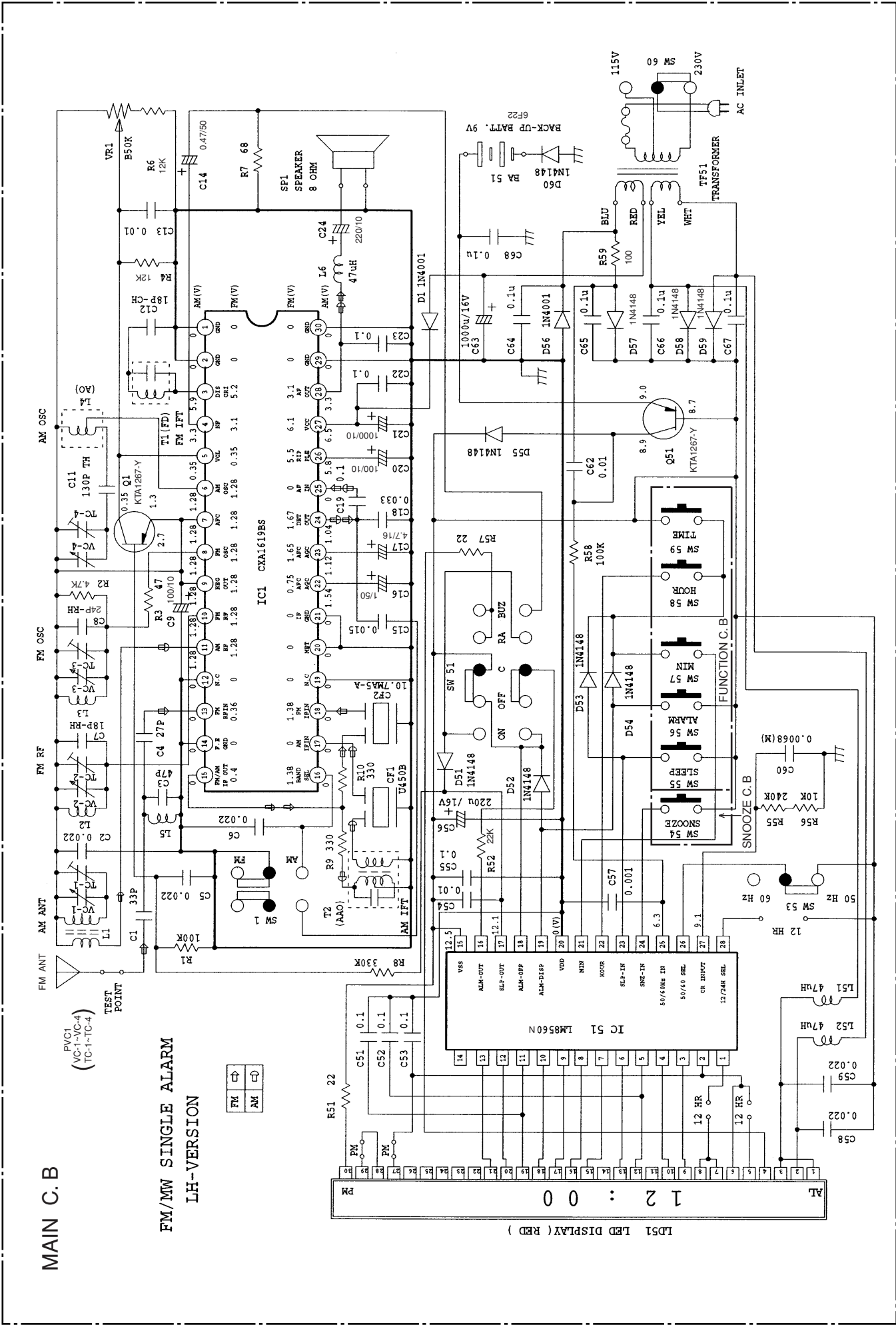
KTA1267-Y







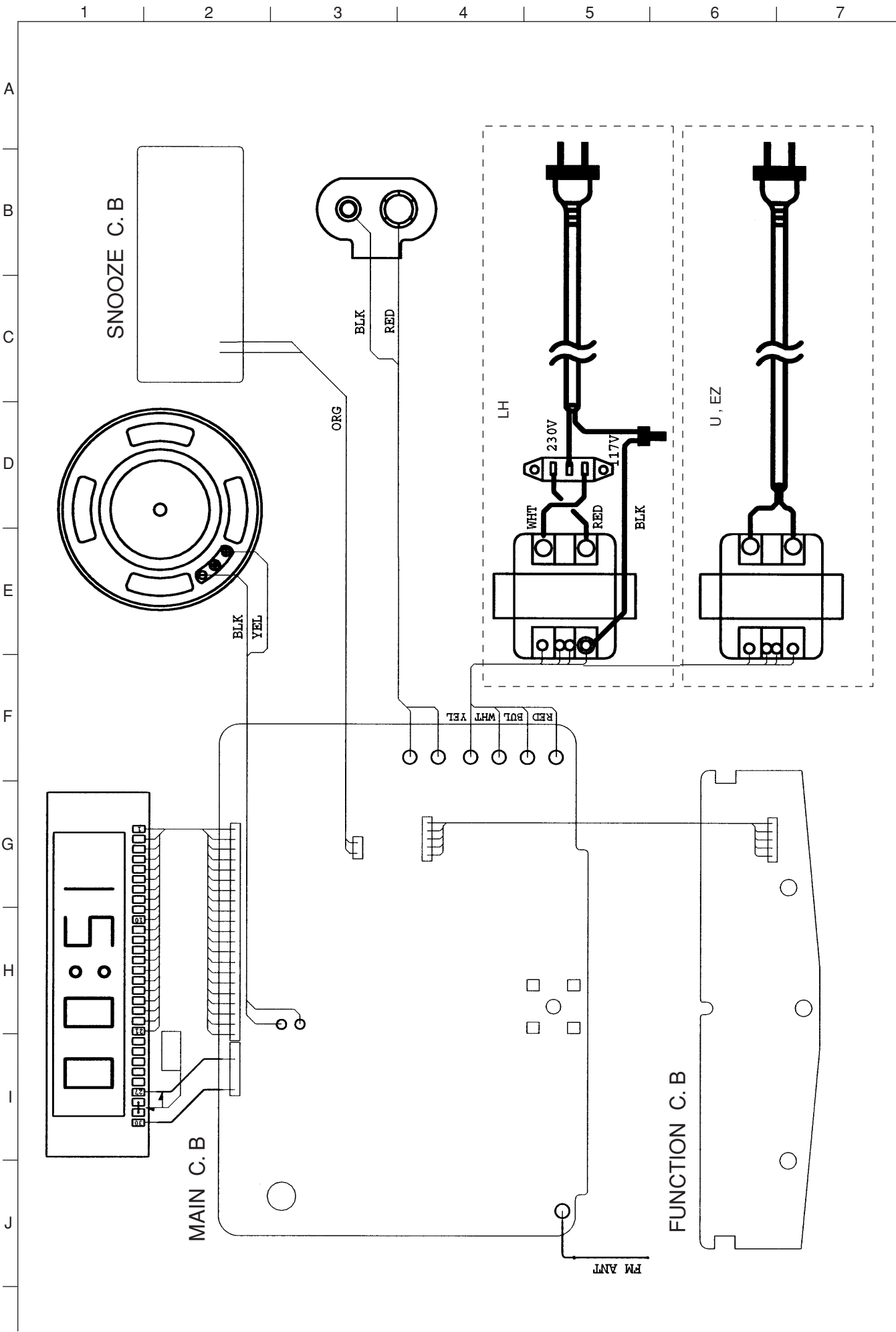




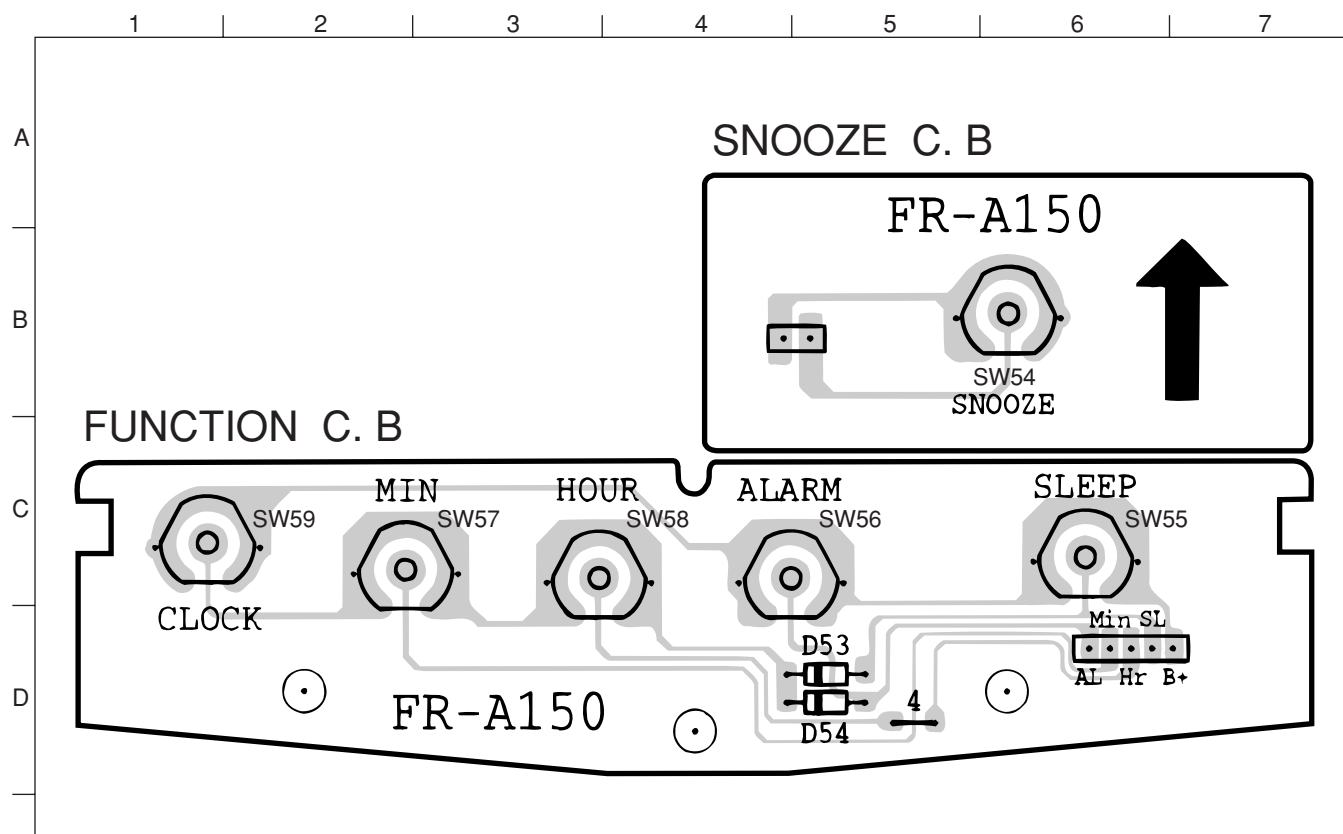




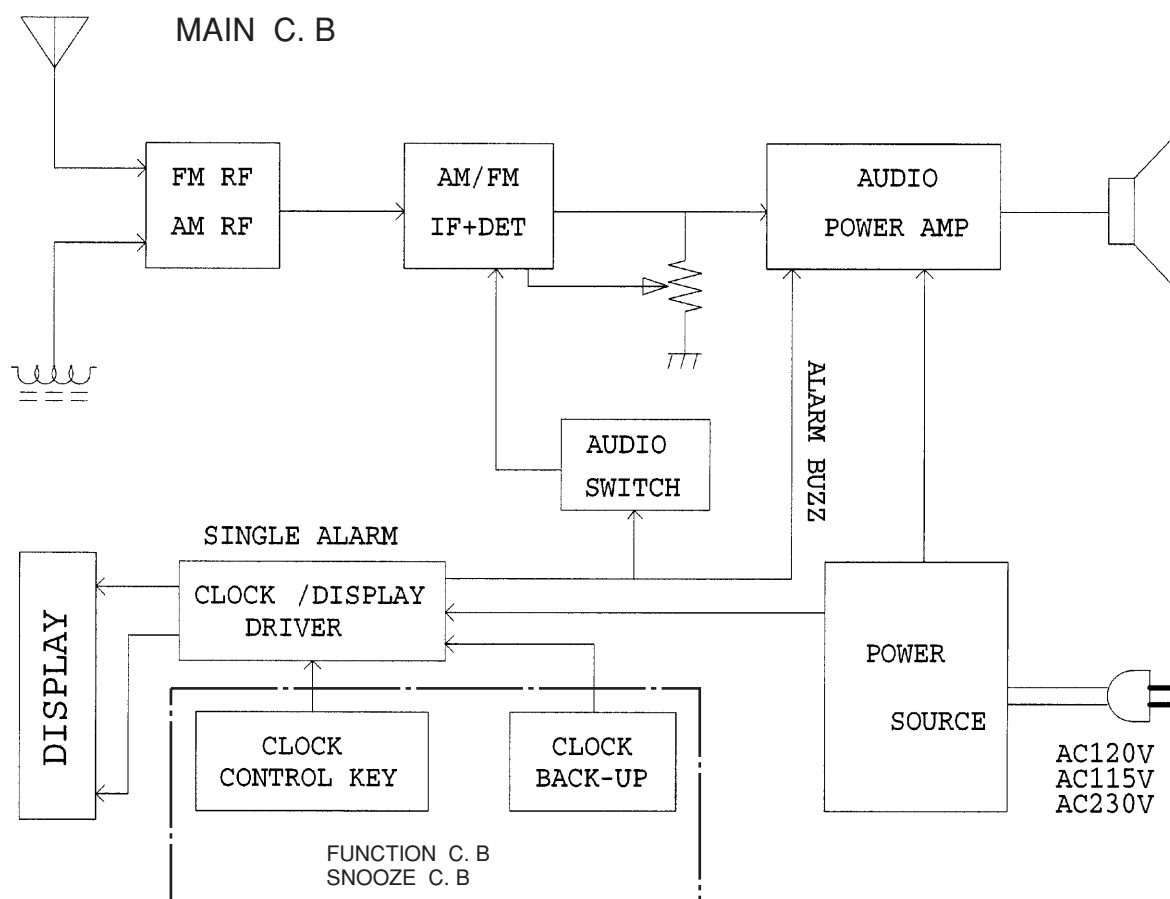
WIRING



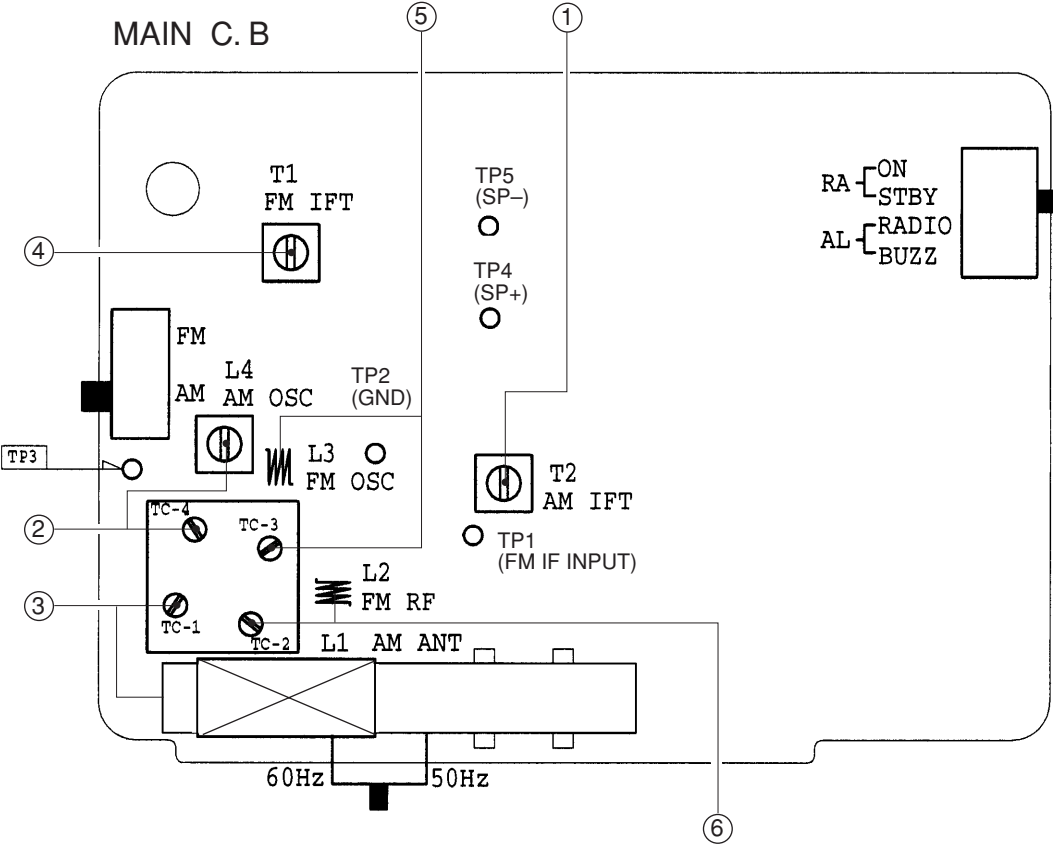
# CIRCUIT BOARD DIAGRAM-4 (FUNCTION, SNOOZE C.B)



## BLOCK DIAGRAM



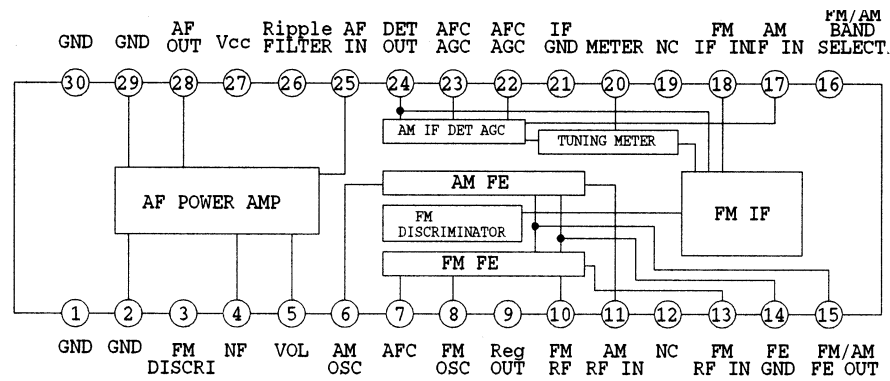
ELECTRICAL ADJUSTMENT



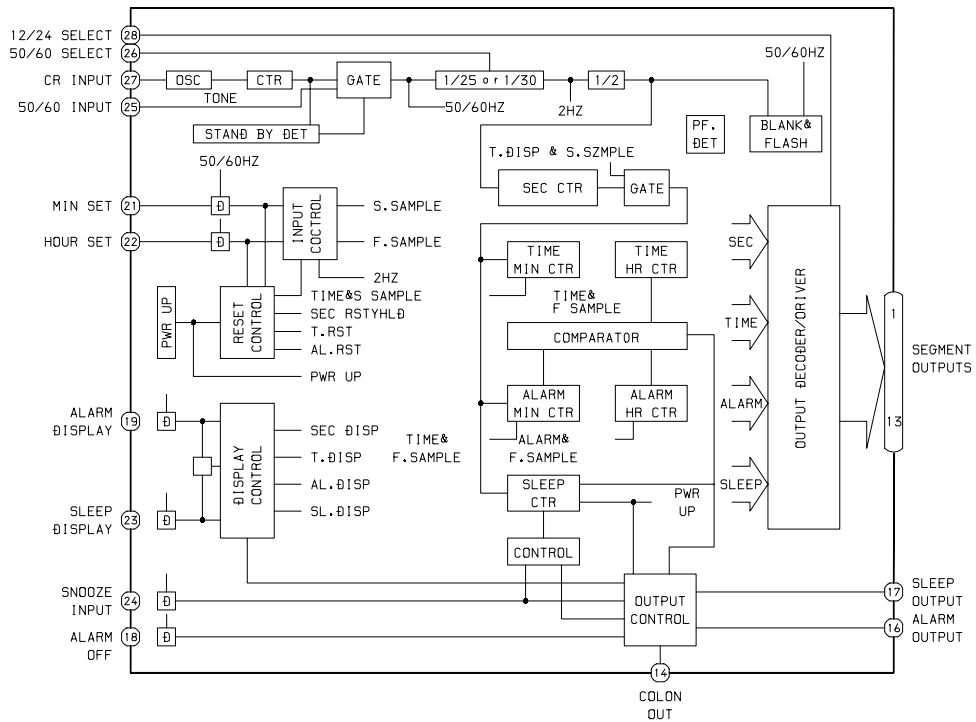
1. AM IF Adjustment		4. FM IF Adjustment	
T2 .....	450 kHz	T1 .....	107 MHz
2. AM Freq. Range Adjustment <U Model>		5. FM Freq. Range Adjustment <U, LH model>	
L4 .....	515 kHz	L3 .....	87.0 MHz
TC-4 .....	1750 kHz	TC-3 .....	109.0 MHz
2. AM Freq. Range Adjustment <EZ, LH Model>		5. FM Freq. Range Adjustment <EZ Model>	
L4 .....	515 kHz	L3 .....	87.4 MHz
TC-4 .....	1635 kHz	TC-3 .....	108.3 MHz
3. AM Tracking Adjustment <U Model>		6. FM Tracking Adjustment	
L1 .....	600 kHz	L2 .....	90 MHz
TC-1 .....	1500 kHz	TC-2 .....	106 MHz
3. AM Tracking Adjustment <EZ, LH Model>			
L1 .....	600 kHz		
TC-1 .....	1400 kHz		

## IC BLOCK DIAGRAM

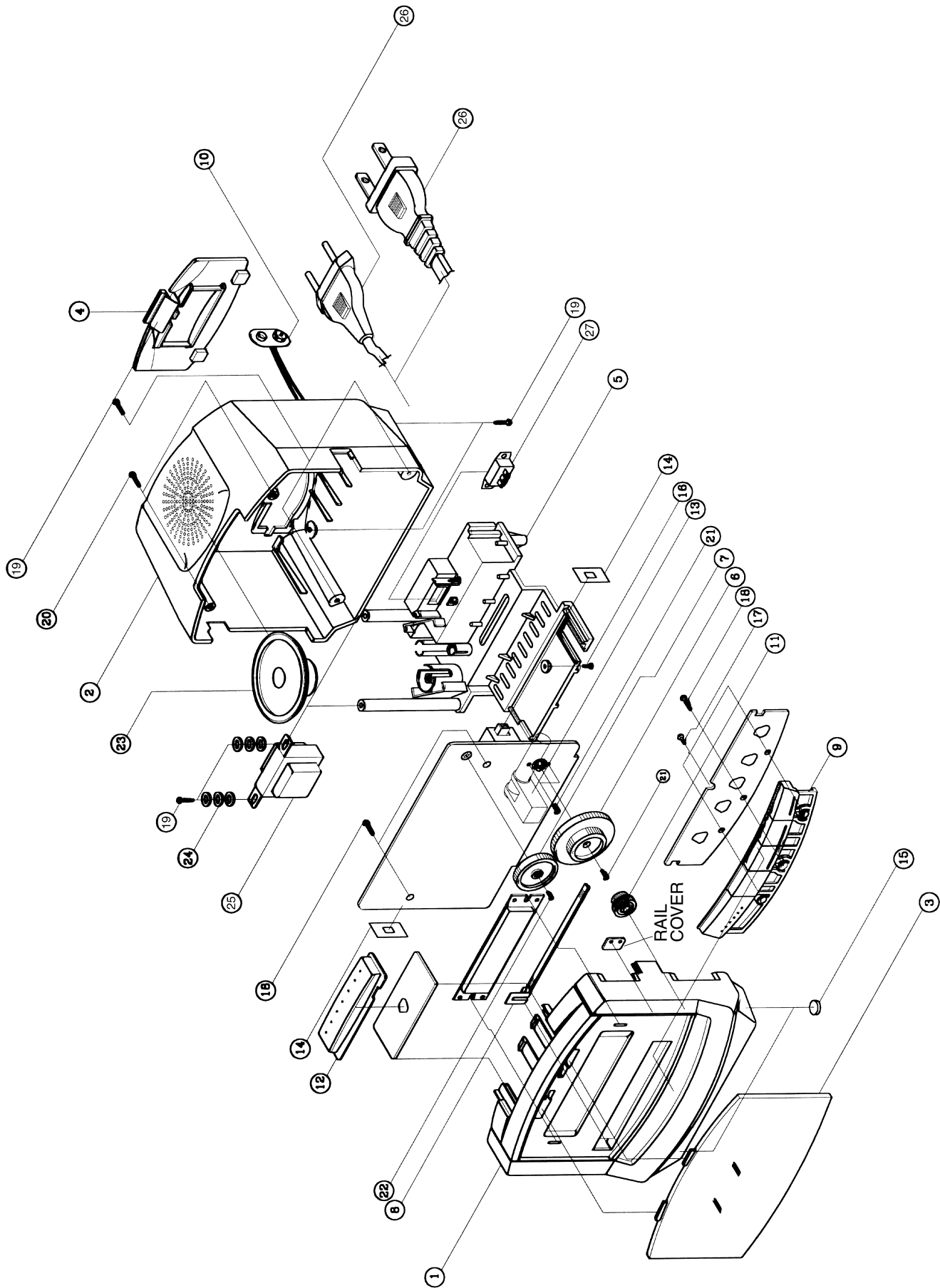
IC, CXA1619BS



IC, LM8560N



MECHANICAL EXPLODED VIEW 1/1



## MECHANICAL MAIN PARTS LIST 1/1

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REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-RUA-001-010		CABI,FRONT U B<EXCEPT LH<W>>	12	8A-RUA-040-010		KEY,SNOOZE W<LH<W>>
1	8A-RUA-035-010		CABI,FRONT LH W<LH<W>>	13	8A-RUA-021-010		HLDR,AM ANT
2	8A-RUA-003-010		CABI,REAR U B<U<B>>	14	8A-RUA-022-010		COVER, SWITCH
2	8A-RUA-013-010		CABI,REAR LH B<LH<B>>	15	8A-RUA-023-010		FOOT,RUBBER
2	8A-RUA-036-010		CABI,REAR LH W<LH<W>>	16	87-721-094-410		QT2+3-6 GLD
3	8A-RUA-005-010		LENS,DIAL U<U<B>>	17	87-741-093-410		SCREW PTS(+ )3x5 PTS0305P
3	8A-RUA-006-010		LENS,DIAL EZ<EZ<B>>	18	87-B10-156-010		VT2+3-8
3	8A-RUA-014-010		LENS,DIAL LH<LH<B>>	19	87-741-096-410		SCREW PTS(+ )3x10 PTS0310P
3	8A-RUA-039-010		LENS,DIAL LH W<LH<W>>	20	87-B10-183-010		VT2+3-20 W/O SOLT
4	8A-RUA-016-010		COVER, BATTERY B<EXCEPT LH<W>>	21	87-222-072-410		P+2.6-5 RED
4	8A-RUA-037-010		COVER, BATTERY W<LH<W>>	22	87-221-024-410		P+1.7-5
5	8A-RUA-017-010		HLDR,TRANS B<U<B>,EZ<B>>	23	8A-RUA-628-010		SPKR,57 8OHM 0.5W
5	8A-RUA-034-010		HLDR,TRANS LH B<LH<B>>	24	87-081-998-010		WASHER FIBER 3x6x1.0<LH<B>,LH<W>>
5	8A-RUA-038-010		HLDR,TRANS LH W<LH<W>>	25	8A-RUA-630-010		PT,U 120V W/AC CORD<U<B>>
6	8A-RUA-032-010		KNOB,RTRY TUNING B<EXCEPT LH<W>>	25	8A-RUA-631-010		PT,EZ 230V W/AC CORD<EZ<B>>
6	8A-RUA-042-010		KNOB,RTRY TUNING W<LH<W>>	25	8A-RUA-632-010		PT,LH 115/230V W/O ACCORD
7	8A-RUA-033-010		KNOB,RTRY VOLUME B<EXCEPT LH<W>>				<LH<B>,LH<W>>
7	8A-RUA-043-010		KNOB,RTRY VOLUME W<LH<W>>	26	8A-RUA-633-010		CORD,AC POWERVDE TYP<LH<B>,LH<W>>
8	8A-RUA-019-010		POINTER,DIAL ORANGE	27	8A-RUA-614-010		SW,SLIDE 1C2P V-SELECT
9	8A-RUA-018-010		KEY,CONTROL B<EXCEPT LH<W>>				<LH<B>,LH<W>>
9	8A-RUA-041-010		KEY,CONTROL W<LH<W>>				
10	8A-RUA-634-010		SOCKET,2P BATTERY				
11	8A-RUA-020-010		GEAR,TUNING<EXCEPT LH<W>>				
11	8A-RUA-044-010		GEAR,TUNING W<LH<W>>				
12	8A-RUA-008-010		KEY,SNOOZE U B<EXCEPT LH<W>>				

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

